

L17 ANSWER 11 OF 11 KOSMET COPYRIGHT 2005 IFSCC on STN

ACCESSION NUMBER: 27061 KOSMET

FILE SEGMENT: scientific, technical

TITLE: **SODIUM ASCORBYL PHOSPHATE**  
(STAY-C(R)50) - A STABLE VITAMIN C FOR ORAL CARE  
PRODUCTS

AUTHOR: FORGEARD N (FORGEARD N, SAECKER C=ROCHE VITAMINS LTD.,  
SWITZERLAND); SAECKER C

SOURCE: PERSONAL CARE, 2003, 4, 1, 21-23, 7 REFS

DOCUMENT TYPE: Journal

LANGUAGE: English

TI **SODIUM ASCORBYL PHOSPHATE** (STAY-C(R)50) - A  
STABLE VITAMIN C FOR ORAL CARE PRODUCTS

AB. . . gingival inflammation. Nevertheless, the use of vitamin C in oral care has been restricted. Vitamin C decomposes when used in **toothpastes** and leads to a brownish discoloration of the products within a relatively short time. For stability reasons, products with vitamin C have to have low **pH** values, when vitamin C is used as such in the form of free ascorbic acid. Acidic **toothpastes** are not sold in the market because a low **pH** can lead to demineralisation of **teeth** enamel. STAY-C 50, the sodium salt of phosphorylated ascorbic acid is a stable form of vitamin C. To become active, this provitamin would be converted to ascorbic acid by enzymes. Since acidic phosphatases are present in the oral mucosa, **sodium ascorbyl phosphate** is a source of free ascorbic acid, has an optimal stability at **pH** values above **pH** 7 and is therefore an excellent and stable alternative to free ascorbic acid in **toothpaste** with all the benefits of vitamin C.

=&gt; d his

(FILE 'HOME' ENTERED AT 13:26:11 ON 28 APR 2005)

FILE 'REGISTRY' ENTERED AT 13:27:35 ON 28 APR 2005

L1 2 S ASCORBYL 2 PHOSPHATE  
 L2 2 S SODIUM ASCORBYL PHOSPHATE  
 L3 1 S POTASSIUM ASCORBYL PHOSPHATE

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CANCERLIT, CAPLUS, CEN, DDFB, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ESBIODBASE, IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-EPLUS, KOSMET, LIFESCI, MEDICONF, MEDLINE, NAPRALERT, ...' ENTERED AT 13:29:52 ON 28 APR 2005

L4 1224 S L1 OR L2 OR L3  
 L5 1132001 S DENTIFRICE OR TOOTHPASTE OR GUM OR MOUTHWASH OR RINSE OR LOSE  
 L6 111 S L4 AND L5  
 L7 358117 S THICKEN?  
 L8 29 S L7 AND L6  
 L9 7170 S TARTAR  
 L10 2 S L9 AND L6  
 L11 40 S L6 AND PH  
 L12 39 DUP REM L11 (1 DUPLICATE REMOVED)  
 L13 794411 S L4 AND DENTIFRICE OR TEETH? OR TOOTH?  
 L14 799854 S DENTIFRICE OR TEETH? OR TOOTH?  
 L15 40 S L14 AND L4  
 L16 11 S L15 AND PH  
 L17 11 DUP REM L16 (0 DUPLICATES REMOVED)

=&gt;

L17 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:552798 CAPLUS

DOCUMENT NUMBER: 135:142004

TITLE: **Dentifrice** compositions containing ascorbic acids for prevention and treatment of periodontal diseases

INVENTOR(S): Morishima, Seiji; Kazuno, Keiko

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001206831	A2	20010731	JP 2000-17509	20000126

PRIORITY APPLN. INFO.: JP 2000-17509 20000126

TI **Dentifrice** compositions containing ascorbic acids for prevention and treatment of periodontal diseases

AB Title compns. contain ascorbic acid and/or its derivs. and are adjusted to pH 9.5-11.0. Within the pH range, ascorbic acids show good bioavailability. Thus, a **dentifrice** composition containing ascorbyl phosphate Mg salt was effective in treating periodontal diseases in dogs.

ST periodontal disease treatment ascorbate **dentifrice** bioavailability

IT Dentifrices  
Drug bioavailability  
(**dentifrice** compns. containing ascorbic acids for prevention and treatment of periodontal diseases)

IT Periodontium  
(disease; **dentifrice** compns. containing ascorbic acids for prevention and treatment of periodontal diseases)

IT 108910-78-7, Magnesium ascorbyl phosphate 144637-40-1  
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)  
(**dentifrice** compns. containing ascorbic acids for prevention and treatment of periodontal diseases)

IT 50-81-7, Ascorbic acid, biological studies 25395-66-8, Ascorbyl stearate 125913-31-7, Ascorbyl phosphate **128808-26-4**, Sodium ascorbyl phosphate 129499-78-1 136521-47-6, 6-O- $\beta$ -D-Galactopyranosyl-L-ascorbic acid 351492-48-3  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(**dentifrice** compns. containing ascorbic acids for prevention and treatment of periodontal diseases)